



## Circuit Card (Supplemental)

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PERMIT/APPROVAL NO.	PLAN FILE/PROJECT NO.
JOB ADDRESS (Print Number, Street Name, Unit No.)	

[illegible][illegible]

Company Name (Print): \_\_\_\_\_

Electrician/Owner Name (Print): \_\_\_\_\_

Electrician/Owner Signature: \_\_\_\_\_

California Electrician Certification Number: \_\_\_\_\_

Date: \_\_\_\_\_



# SINGLE FAMILY DWELLING ELECTRICAL SERVICE LOAD CALCULATION

**OPTIONAL METHOD - 2001 CALIFORNIA ELECTRICAL CODE SECTION 220-30 (Based on 1999 NEC)**

*As an alternative method the STANDARD METHOD found in Article 220 of the National Electrical Code, may be used*

## 1. GENERAL LIGHTING LOADS

Dwelling \_\_\_\_\_ Sq. Ft. x 3 VA (220-30 (b) (2)) = \_\_\_\_\_ VA

Small appliance loads (220-30 (b) (1)) 1500 VA x \_\_\_\_\_ circuits = \_\_\_\_\_ VA

Laundry load (220-30 (b) (1)) 1500 VA x \_\_\_\_\_ circuits = \_\_\_\_\_ VA

**General Lighting Load Total:** \_\_\_\_\_ VA

## 2. COOKING EQUIPMENT LOADS (220-30 (b) (3) - Nameplate Value(s))

Cooktop(s) \_\_\_\_\_ VA

Oven(s) \_\_\_\_\_ VA

Range(s) \_\_\_\_\_ VA

**Cooking Equipment Load Total:** \_\_\_\_\_ VA

## 3. ELECTRIC DRYER (220-30 (b) (3), (Nameplate, 5000 VA minimum))

Dryer(s) \_\_\_\_\_ VA

**Dryer Load Total:** \_\_\_\_\_ VA

## 4. FIXED APPLIANCE LOADS (220-30 (b) (3))

Compactor \_\_\_\_\_ VA      Water Heater \_\_\_\_\_ VA

Dishwasher \_\_\_\_\_ VA      Built-in Vacuum \_\_\_\_\_ VA

Disposal \_\_\_\_\_ VA      Hydromassage Bathtub \_\_\_\_\_ VA

Microwave \_\_\_\_\_ VA      Other \_\_\_\_\_ VA

**Fixed Appliance Load Total** \_\_\_\_\_ VA

## 5. MOTOR LOAD(s) (220-30 (b) (4) - Nameplate Value(s)) \_\_\_\_\_ VA

## 6. OPTIONAL LOAD SUBTOTAL (Add all of the above Load Totals) \_\_\_\_\_ VA

## 7. APPLYING DEMAND FACTORS - (220-30(b))

First 10,000 VA (Optional Load Subtotal from line 6) x 100% = \_\_\_\_\_ **10,000** VA

Remaining optional load (subtotal from line 5-10,000 VA) = \_\_\_\_\_ VA x 40% = \_\_\_\_\_ VA

## 8. HEATING OR AC LOAD (220-30(c))

**Larger of the Heating or AC Load** = \_\_\_\_\_ VA

## 9. OPTIONAL LOADS TOTAL (Total from lines 7 and 8) = \_\_\_\_\_ VA

10. **COMPUTED LOAD** =  $\frac{\text{Optional Loads Total}}{240 \text{ Volts}}$  = \_\_\_\_\_ Amperes\*

11. **MINIMUM SERVICE SIZE REQUIRED:** \_\_\_\_\_ Amperes

\* (Please put total on front of 'Primary' Circuit Card under Computed Load)